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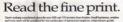
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Targed Information Pile Format These kind of picture files are of the "raster" variety. That is they are composed of individual blacks of black or white scaling them down makes them look better, but scaling them up creates less quality images. There is a real file size limitation for this format with even small images

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graphical images, or images are readily available. Frequently these disks have 600 Mega Bytes of files on them, enough to full

IN REVIEW Deukton publishing is quickly be-

shape or form) in homes and offices around the world. The ability to combine graphics and text in a document that would rival anything a typesetter could readuce a making of very attractive indeed As well, today's hardware which best suites DTP is falling in price

rather rapidly. Such thems as 33MHz new within reach for many home and small business users If you would like to go as far as to to spuff up your price list, there is

something to fit both your needs and budget. Good luck and happy pubbehine!



EtherNet Explained



use is a very difficult one molecul. With all the nosabilities it can sometimes be a little

overwhelming. In this, our first of a series of articles on network computing, we as linear-bus/network topology. Our primary focus will be on what it is. and what networks does it best suit



In its most common form Ethernet networks under Novell, LAN Manager, Banyan Vines, and LANtestic have a main trunk of cable with





Network Corner

non Or Marro stations and file servers (see Figure

1) The mank scretemed to as a linearbeing constantly poled by all stations. Each workstation has a network

trunk. The NIC constantly monitors the network for signals. If a workstation has a request, it checks for a clear line and transmits the request Should two or more stations werd out a request at the same time, the servals will collide. Each station will

then be even a scheduled retrans-

That is known as a contention scheme with CSMA-CD (Carrier

sape Detection), and is defined by the IEEE specification 802.3. This specifacation is very important. Without it manufacturer's could theoretically create their own standards, thus ras-

HOW IS IT DIFFERENT ? Ethernet differs from ABC net and

Token Rang by the way the line is poled. As was discussed earlier, under the linear-bus scheme, each station monitors a single line or trunk for a clear stenal. When it gets the so ahead the NIC makes the transmis-ARC net and Token Rime use what

is referred to as a token passing tion. If the station has nothing to transmit the token is passed on to the next NIC Since only one station has as no collisions in transmission Over all there are no major performance differences between luncar-

hus, and token possine topologies Raw amerikanoss (Mirro transfer Ethernet and Token Ring are the faster of the three. These specifications are important only under certain condtions





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DISADVANTAGES OF

to Ethernet. First off, the IEEE 502.3 standard only supports line or trunk cable distances of not under 700°. This is easily avoided by usine either multiple network cards in a single file server, or repeaters that retrans-

expension problems the entire network will crash. On larger networks over longer distances finding the ficult. This, however, is not a com-

New 27 MS Word 5.0 Level I positing schemes each station has a have any bearing on your buying deducated line which is attached to expensive hubs or multistation ac-

ADVANTAGES OF

Generally speaking, Ethernet is alral for small networks (under 30 nodes) which have relatively light tradic requirements. It is very quick under these conditions and acts as an ideal beckbone for internetworking other LANs in the same memore.

Ethernet is also much less expenove to cable once only one dedicated cable run is required. Under token

Ethernet is quickly becoming the most popular network protocol. Its cost effective cable and hardware recurrements, and performance specismall to medium sized networks



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MAXIMIZING LANTASTIC Here are a few tips on loading the

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A. The difference is quite saraple. With depleting you have two hard draw and have controllers. When data is written to one drive it is simultaneously written to the other draw. This is control in footh tillerant networks where draw time is critical. Should one draw cut out, the second draw well contract to function.

Mirroring in quite similar exceptibat it uses been hard drives and only one controller. Consequently, should the controller of the primary hard disk first own! the system. However, downtime in monmized since only one of the drives or openable need by referred.

mized since only one of the drives or controller need be replaced. Of the two methods, duplexist makes more nerve

GIVE YOUR FAMILY HEADSTART



Putting together a home computer system can be both confusing and expensive, when adding mill the software and extras that you may need. Ideally, a home system should come with all the bells and whatles built right in, with a little come in facture requirements. All at a price that went send you to the poor house.

The HendGrant CO series from Meanway / Philips

nows, but allower enterta with fighting cultum. Available in a 78 and 3800s vertices, the Handboart offers everything better congrupter enterto desires, the Handboart offers enterthing better congrupter enterto developed with Standard Enteres rectulate a 35° LMAME BODY drive, one 525° 680M8 CDAROM drive with fall and/or capability, NOA gapties adapter, NOA colour mentals. All Object in the Company of the Com

dain drive.

One of the most unique features of this system is the CD-BOM drive. Like the CD be your retire of any play manue using standard compact discs in full stereo sound just pop in your favorate dain, into the system, select CD between the CD-BOM control of the CD-BOM control of

purpose of the more notable applications which are provided with the Healthart to neoppact disc of course) include all 21 volumes of Grollov's Electrone Encyclopedia with graphs. PC Golos (world alias with graphs). PC Golos (world alias with graphs), PC Golos (world alias with graphs) and attained. The Manhole adventure games with still assence sound, Marcis Benoon Tacchen Typing, Berlands Quatron 1d openadheet, Delaw Paint II (of the stricts) and Quatron 1d Quatron 7 file the computers used; and QuA 30 word processory/file the

The intuitive HeadStart Environment makes learning, on the computer that much sampler. By using pull down menus and the mouse, first time users will find starting programs and getting around easy and fun.

All in all the HeadStart is the best home computer.

All in all the Headshart is the best some computer system money can buy. The software selection and hardware provided is like nothing available on the market beday. Ask your ANO for pir or our special introductory pricing on the Headshart 300CD (286) and 500CD (386sc).



PEAK PERFORME

Today's question is not whether to backup your hard disk, but rather how to go about doing so. With the shear size of applications enougheand the populanty of networking becoming stronger, the need for a reliable tape backup system which

still fits the budget is becoming para-Whether you're networked or running stand alone, one of the best products on the market today for Safe 1000Plus line of subsystems Available for both IBM compatibles and PS /2's the \$000 has offer both

Utilizing DC2120 extended length cartridges, coupled with Mountain's reperietary MACH controller and FrieSafe software, between 80 and 304MB of data can be stored on one tape. Making it the ideal solvene for your experies meets Plus, if you are already usune a OIC-40 format compatible drive (such as Mountain's 4000 family or the Colorado Jumbo), the 8000 perios can read

making the upgrade path that much easier. MACH PERFORMANCE

Most reasons for not backing up is that it takes too much time. Any user of the 8000 will atest that speed

Utilizine Mountain's corn MACH2 controller, up to 6 Messbytes of data can be stored in one minute using the MT-101 format. With its unique "format on the fly" feature, you won't have to waste your time pre-formatting tapes before backing up your data.

EASY TO USE FileSafe, the standard tape open-

stone software used on all Mourtain tape storage plotforms, provides a consistent user interface FileSule combines the power to perform sophisticated data mena-re-

ment tasks with the flexibility that allows you to define tape operations specifity any level of selective file or full image backup and easily program a Mountain tape system to

The software can be operated through menus or from the command Context sersebye on-lane helps crowns can guade you through all of Pife-Safe's features sirtually elementing the need to refer to the user marval

NOVELL APPROVED

With Novell Netware being the number one network operation system of choice for PC LAN environments, it only makes sense that the 8000 series is lested and approved by Novell Inc . The F58000 is also compatible with PC LAN LANDStic, MS Net, and 3Com LAN operat-

ing environments. other Mountain tane backum systems please contact the AND office posted you, or mail in your reader response ANO TO OFFER CGA APPROVED PHILIPS, ROLAND, & TOSHIRA

With the backing of Philins Flectronics, ANO Office

Automation has been selected as a preferred vendor to students of the CGA Associations' Program 90. Program 90 requires second year students to invest

in a personal computer. The circulum covers everything from the insides of a PC, to spreadsheet and word processing technology. A superb set of documentations plus full phone support is provided to each student. " We are very excited

about this opportunity.". exclaims Toby Cha. CBO of ANO Office Automation."Historically we have been strong in the edu-

cational marketplace, however, this opens up channels previously unavailable to Representing the Philips' line of PCs. Toshiba port-

ables, and Roland/ Panasonic printers, all 9 ANO locations will be involved in this nationwide undertaking.





Take Your Show



On The Road.

With a Sharp PC-6220 Notebook Computer, & Canon BJ-10e Portable Printer

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Standard Features: PC-6220 - 1MB RAM, 1.44MB floppy drive. 20MB hard drive. Canon BJ-10e - Bubblejet technology, 360dpi, Optional battery.

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SIMPLY WINDOWS

In an April 15th press release, Computer Accounting for the Microsoff Windows 30 small businesses a simple transition into gomavailable from Computer Associates at (604)

40 MEG SHORTAGE

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LANGAGE Will we were woon See the wit-LANtastic" on page 5 for tips on setting up The



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